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**NETWORK ADDRESSING
METHOD AND SYSTEM FOR LOCALIZING
ACCESS TO NETWORK RESOURCES
IN A COMPUTER NETWORK**

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ABSTRACT OF THE DISCLOSURE

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An addressing method and a system for assigning network addresses such that access to a network resource remains local. This is accomplished by allocating a local network address in favor of a remote network address. A process executing on a processor makes a request for a network address. A local network address is located in memory of the processor executing the process. The local network address is assigned, if available. Otherwise, a remote network address located in the memory of another processor is assigned. Preferably, the network address request contains information about on which processor the requesting process is running. Using this information, the present invention is able to select a network address that resides in the local memory of that processor. The network address allocation system of the present invention includes a network address allocator that uses the method of the present invention as outlined above.